

REPORT OUTLINE SHEET

CHEMICAL: Aquacar X42

TEST MATERIAL: Glutaraldehyde	42.5%
Alkyl dimethyl benzyl ammonium chloride	7.5%
Total	50.0%

STUDY TYPE: Eight-Day Dietary LC₅₀ for Bobwhite Quail (Colinus virginianus)

STUDY I.D.:

Beavers, J.B. and Jaber, M. (1984) Acute Dietary LC₅₀ Test For Waterfowl and Upland Game Bird; Project No. 142-129; Prepared by Wildlife International Ltd. For Union Carbide Corporation, P.O. Box 670, Bound Brook, New Jersey 08805; MRID No. 421105-00.

REVIEW BY:

Name: Curtis E. Laird
Title: Fishery Biologist
Organization:

Signature: *Curtis E. Laird*
Date: 1-31-92

APPROVED BY:

Name: Allen Vaughan
Title: Supervisory Bilolgist
Organization: EEB/EFED

Signature: *Allen W. Vaughan*
Date: 3.9.92

CONCLUSIONS:

This study indicates Aquacar is practically nontoxic to bobwhite Quail with an LC₅₀ > 5620 ppm. This study does fulfill the guideline requirement in support of registration for a formulated product.

RECOMMENDATIONS: N/A

BACKGROUND:

This study was submitted for EEB review.

DISCUSSION OF INDIVIDUAL TESTS OR STUDIES: N/A

MATERIALS AND METHODS:

A. Test Animals:

The test animals were 16-day old bobwhite quail from Sand Prairie Quail Farm, Maquoketa, Iowa.

B. Dosage -

Ten birds per dose level; 5 dosage levels plus control (Corn oil, 562, 1000, 1780, 3160 and 5620 ppm).

C. Study Design -

Birds were tested in battery brooders (72 X 90 X 23 cm); temperature was $99^{\circ}\text{F} \pm 1^{\circ}\text{F}$; photoperiod was 17L/7D.

D. Statistical Analysis -

Visual inspection due to lack of sufficient mortality (one mortality in the 5620 ppm dosage level).

REPORTED RESULTS:

The study author found the eight-day dietary LC_{50} value to be > 5620 ppm. The NOEL was 3160 ppm.

STUDY AUTHOR'S CONCLUSIONS/QA MEASURES:

The Quality Assurance Officer stated that "this study was examined for conformance with Good Laboratory Practices as published by U.S. Environmental Protection Agency, Office of Pesticide Programs (Federal Register, Volume 48, No. 230, November 29, 1983, Pages 53946-53969)."

REVIEWER'S DISCUSSION AND INTERPRETATION OF STUDY RESULTS:

A. Test Procedure:

The test procedure complied with the recommended EPA protocol of October 1982.

B. Statistical Analysis:

No statistics were performed due to lack of sufficient mortality (one mortality occurred in the 5620 ppm dosage level).

C. Discussion/Result:

Agucar ⁵⁴²~~211~~ is practically nontoxic to bobwhite quail with an $\text{LC}_{50} > 5620$ ppm. The NOEC based on no mortality and body weight gain was 3160 ppm. "On day 2 one bird in the 5620 ppm concentration showed lower limb weakness, lethargy and ventral head curl; however, this bird was asymptomatic throughout the three day observation period."

D. Adequate of Data:

- 1. Category: Core for a 50.0% formulated product**
- 2. Rationale: N/A**
- 3. Repairability: N/A**

COMPLETION OF ONE LINER FOR STUDY: Yes

CBI APPENDIX: